

SEQUENCE LISTING

<110> Philip E.Brantton et al.

<120> Adenovirus E4 Proteins For Inducing Cell
Death

<130> 50013/002003

<140> 09/214,478

<141> 1997-07-03

<150> 60/021,273

<151> 1996-07-05

<150> 60/028,740

<151> 1996-10-22

<150> IB97/01041

<151> 1997-07-03

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 885

<212> DNA

<213> Adenovirus

<400> 1

atgactacgt	ccggcgttcc	atttggcatg	acactacgac	caacacgatc	tcgggtgtct	60
cggcgcactc	cgtacagtag	ggatcgtcta	cctcctttt	agacagaaac	ccgcgcctacc	120
atactggagg	atcatccgct	gctgcccggaa	tgtaaacactt	tgacaatgca	caacgtgagtt	180
tacgtgcgag	gtcttccctg	cagtgtggga	tttacgtctga	ttcagaatatg	gggtgttccc	240
tgggatatgg	ttcttaacgcg	ggaggagctt	gtaatcctga	ggaagtgtat	gcacgtgtgc	300
ctgtgttgg	ccaacatga	tatcatgacg	agcatgtatg	tccatggta	cgagtccctgg	360
gctctccact	gtcattgttc	cagtcccggt	tccctgcagt	gtatacgccg	cgggcagggtt	420
ttggccagct	ggtttaggat	ggtgtggat	ggccatgt	ttaatcagag	gtttatatgg	480
taccggggagg	tggtaat	caacatgcca	aaagaggtaa	tgttatgtc	cagcgtgttt	540
atgaggggtc	gccacttaat	ctacctgcgc	tttgtgtatg	atggccacgt	gggttctgtg	600
gtccccggca	tgagcttgg	atacagcgcc	ttgcactgtg	ggatttgaa	caatattgtg	660
gtgctgtgct	gcagttactg	tgctgat	agtgagatca	gggtgcgctg	ctgtgcccgg	720
aggacaaggc	gcctttagct	gccccgggtg	cgaatcatg	ctgaggagac	cactgccatg	780
ttgtattcct	gcaggacgga	gccccgggg	cagcagttt	ttcgccgcgt	gctgcagcac	840
caccggcccta	tcctgatgca	cgattatgac	tctaccccca	tgtag		885

<210> 2

<211> 294

<212> PRT



<213> Adenovirus

<400> 2

Met Thr Thr Ser Gly Val Pro Phe Gly Met Thr Leu Arg Pro Thr Arg
1 5 10 15
Ser Arg Leu Ser Arg Arg Arg Thr Pro Tyr Ser Arg Asp Arg Leu Pro Pro
20 25 30
Phe Glu Thr Glu Thr Arg Ala Thr Ile Leu Glu Asp His Pro Leu Leu
35 40 45
Pro Glu Cys Asn Thr Leu Thr Met His Asn Val Ser Tyr Val Arg Gly
50 55 60
Leu Pro Cys Ser Val Gly Phe Thr Leu Ile Gln Glu Trp Val Val Pro
65 70 75 80
Trp Asp Met Val Leu Thr Arg Glu Glu Leu Val Ile Leu Arg Lys Cys
85 90 95
Met His Val Cys Leu Cys Cys Ala Asn Ile Asp Ile Met Thr Ser Met
100 105 110
Met Ile His Gly Tyr Glu Ser Trp Ala Leu His Cys His Cys Ser Ser
115 120 125
Pro Gly Ser Leu Gln Cys Ile Ala Gly Gly Gln Val Leu Ala Ser Trp
130 135 140
Phe Arg Met Val Val Asp Gly Ala Met Phe Asn Gln Arg Phe Ile Trp
145 150 155 160
Tyr Arg Glu Val Val Asn Tyr Asn Met Pro Lys Glu Val Met Phe Met
165 170 175
Ser Ser Val Phe Met Arg Gly Arg His Leu Ile Tyr Leu Arg Leu Trp
180 185 190
Tyr Asp Gly His Val Gly Ser Val Val Pro Ala Met Ser Phe Gly Tyr
195 200 205
Ser Ala Leu His Cys Gly Ile Leu Asn Asn Ile Val Val Leu Cys Cys
210 215 220
Ser Tyr Cys Ala Asp Leu Ser Glu Ile Arg Val Arg Cys Cys Ala Arg
225 230 235 240
Arg Thr Arg Arg Leu Met Leu Arg Ala Val Arg Ile Ile Ala Glu Glu
245 250 255
Thr Thr Ala Met Leu Tyr Ser Cys Arg Thr Glu Arg Arg Arg Gln Gln
260 265 270
Phe Ile Arg Ala Leu Leu Gln His His Arg Pro Ile Leu Met His Asp
275 280 285
Tyr Asp Ser Thr Pro Met
290

<210> 3

<211> 345

<212> DNA

<213> Adenovirus

<400> 3

atgggttcttc cagctcttcc cgctcctccc gtgtgtgact cgcagaacga atgtgttaggt 60
tggctgggtg tggcttattc tgccgtgggtg gatgttatca gggcagcggc gcatgaagga 120
gtttacatag aacccgaagc cagggggcgc ctggatgctt tgagagagtg gatatactac 180

aactactaca cagagcgatc taagcggcga gaccggagac gcagatctgt ttgtcacgccc
cgcacctggc tttgcttcag gaaatatgac tacgtccggc gttccatgg ccatgacact
acgaccaaca cgatctcggt tgtctcggt cactccgtac agtag

240

300

345

<210> 4
<211> 114
<212> PRT
<213> Adenovirus

<400> 4
Met Val Leu Pro Ala Leu Pro Ala Pro Pro Val Cys Asp Ser Gln Asn
1 5 10 15
Glu Cys Val Gly Trp Leu Gly Val Ala Tyr Ser Ala Val Val Asp Val
20 25 30
Ile Arg Ala Ala Ala His Glu Gly Val Tyr Ile Glu Pro Glu Ala Arg
35 40 45
Gly Arg Leu Asp Ala Leu Arg Glu Trp Ile Tyr Tyr Asn Tyr Tyr Thr
50 55 60
Glu Arg Ser Lys Arg Arg Asp Arg Arg Arg Ser Val Cys His Ala
65 70 75 80
Arg Thr Trp Phe Cys Phe Arg Lys Tyr Asp Tyr Val Arg Arg Ser Ile
85 90 95
Trp His Asp Thr Thr Thr Asn Thr Ile Ser Val Val Ser Ala His Ser
100 105 110
Val Gln